

Message Text

UNCLASSIFIED

PAGE 01 NEW DE 01546 01 OF 02 020935Z

17

ACTION OES-05

INFO OCT-01 NEA-10 ISO-00 ERDA-07 AID-05 CEA-01 CIAE-00

CIEP-02 COME-00 DODE-00 EB-07 FPC-01 H-02 INR-07

INT-05 L-03 NSAE-00 NSC-05 OMB-01 PM-04 USIA-15

SAM-01 SP-02 SS-15 STR-04 TRSE-00 FEA-01 NSF-02 CEQ-01

EPA-04 DOTE-00 HUD-02 NASA-02 NRC-07 /122 W
----- 007033

P 020730Z FEB 76

FM AMEMBASSY NEW DELHI

TO SECSTATE WASHDC PRIORITY 3735

UNCLAS SECTION 1 OF 2 NEW DELHI 1546

PASS ERDA, OES, NSF, NBS, NOAA, DOI

E.O. 11652: N/A

TAGS: TECH IN

SUBJECT: BACKGROUND INFORMATION ON FOREIGN ENERGY PROGRAMS:
INDIAN PROGRAMS

REF: (A) STATE 301432 (B) NEW DELHI 0684 (C) 75
NEW DELHI A-319, (D) 75 NEW DELHI A-318 (E) NEWDELHI
1492

1. WITH THE TRANSMITTAL OF INFORMATION ON ENERGY R AND D
PRIORITIES BY REFTEL (B), AND ON INDIAN RESEARCH PROGRAMS BY
REFAIR (C) ON OCTOBER 2, 1975, THIS CABLE
COMPLETES THE REPLY TO REFTEL (A).

ORGANIZATION FOR ENERGY AND RELATED R AND D ACTIVITIES

2. THERE IS NO ONE AGENCY OF THE INDIAN GOVERNMENT WHICH IS
RESPONSIBLE FOR EITHER THE FORMULATION OR EXECUTION OF ENERGY
POLICY OR PROGRAMS. TO THE EXTENT THAT THE PLANNING COMMISSION
PLANS AND COORDINATES ALL PROGRAMS IN THE FIVE YEAR DEVELOPMENT
UNCLASSIFIED

UNCLASSIFIED

PAGE 02 NEW DE 01546 01 OF 02 020935Z

PLANS, IT HAS THE ULTIMATE SAY IN DECIDING NATIONAL ENERGY

PROGRAMS.

3. IN OCTOBER 1974, GOI CONSTITUTED A NEW MINISTRY OF ENERGY BY BRINGING TOGETHER FROM THE VARIOUS MINISTRIES THOSE DEPARTMENTS WHICH DEAL DIRECTLY WITH ENERGY RELATED ISSUES. THE MINISTRY IS RESPONSIBLE FOR THE OPTIMUM DEVELOPMENT AND UTILIZATION OF ENERGY RESOURCES. THE DEPARTMENTS OF POWER AND COAL REPORT TO THE MINISTRY. THE FORMER IS RESPONSIBLE FOR FORMULATING POLICY AND PROGRAMS FOR CONSERVATION, DEVELOPMENT AND REGULATION OF POWER RESOURCES, AND FOR COORDINATING EFFORTS TOWARD DEVELOPMENT OF NON-TRADITIONAL RESOURCES IN INDIA. THE DEPARTMENT DEALS WITH ELECTRICITY LEGISLATION, POWER PROGRAMS, RURAL ELECTRIFICATION, AND FEDERAL HYDRO-ELECTRIC AND THERMAL GENERATION PROJECTS. UNDER THE DEPARTMENT OF POWER, THERE IS A CENTRAL ELECTRICITY AUTHORITY RESPONSIBLE FOR DEVELOPING A NATIONAL POWER POLICY AND FOR COORDINATING THE ACTIVITIES OF AGENCIES WHICH CONTROL AND UTILIZE NATIONAL POWER RESOURCES. THE CENTRAL POWER RESEARCH INSTITUTE AT BANGALORE UNDERTAKES R AND D IN GENERATION, TRANSMISSION AND DISTRIBUTION OF ELECTRIC ENERGY. HOWEVER, THE CENTRAL POWER COMMISSION UNDER THE ENERGY MINISTRY PLANS AND EXECUTES HYDRO-ELECTRIC PROJECTS.

4. THE DEPARTMENT OF COAL IS RESPONSIBLE FOR PLANNING AND DEVELOPMENT OF COAL RESOURCES INCLUDING COAL MINES. COAL INDIA LTD. AT CALCUTTA IS A GOVERNMENT OWNED CORPORATION UNDER THE DEPARTMENT TO DEVELOP COAL MINES AND THE CENTRAL DESIGN AND RESEARCH ORGANIZATION IS RESPONSIBLE FOR R AND D.

5. THE MINISTRY OF PETROLEUM IS RESPONSIBLE FOR ALL ASPECTS OF PETROLEUM DEVELOPMENT INCLUDING IMPORT OF CRUDE. OIL INDIA LTD., IN WHICH GOI HAS 50 PERCENT SHARES UNDERTAKES DRILLING, EXPLORATION AND REFINING OF CRUDE WHILE THE GOVERNMENT OWNED OIL AND NATURAL GAS COMMISSION UNDERTAKES EXPLORATION AND DRILLING ONLY.

6. THE DEPARTMENT OF ATOMIC ENERGY IS RESPONSIBLE FOR RESEARCH AND DEVELOPMENT ON AND CONSTRUCTION OF ATOMIC POWER PLANTS. AN ATOMIC POWER AUTHORITY UNDER THE DEPARTMENT LOOKS AFTER THE CONSTRUCTION AND OPERATION OF POWER PLANTS. A UNCLASSIFIED

UNCLASSIFIED

PAGE 03 NEW DE 01546 01 OF 02 020935Z

THOROUGH REVIEW OF THE ATOMIC POWER PROGRAM IS IN PROGRESS. SEE REF AFR (D) FOR STATUS OF INDIA'S ATOMIC POWER PROGRAM.

7. THE DEPARTMENT OF SCIENCE AND TECHNOLOGY IS RESPONSIBLE FOR COORDINATING AND IN SOME CASES, FINANCING OF ENERGY R AND D PROGRAMS AND IN FURTHERING INTERNATIONAL COLLABORATION IN THIS AREA. IT ALSO ACTS AS THE SECRETARIAT OF THE GOP GOI SCIENCE POLICY COMMITTEE-- THE NATIONAL COMMITTEE ON SCIENCE AND

TECHNOLOGY, WHICH HAS FORMULATED AND PRESENTED TO THE
PLANNING COMMISSION CONCRETE PROJECTS IN ENERGY R AND D.
THE NCST HOWEVER HAS ONLY AN ADVISORY ROLE.

ENERGY OBJECTIVES.

8. DESIRED DEGREE OF SELF-SUFFICIENCY-- IN NEARLY ALL
PROGRAMS OF NATIONAL DEVELOPMENT, THE INDIAN PHILOSOPHY HAS
BEEN TO ACHIEVE SELF-SUFFICIENCY. IT HAS GONE IN FOR FOREIGN
COLLABORATION IN THOSE SOPHISTICATED TECHNOLOGIES WHICH SHE
HERSELF CANNOT DEVELOP. FOREIGN COLLABORATION HAS ALSO
BEEN INVITED WHEN THERE ARE CRITICAL SHORTAGES AND THE INDUSTRY
IS NOT CAPABLE OF MEETING THE DEMANDS READILY. INDIA IS SEEKING
WORLD BANK ASSISTANCE IN SETTING UP SUPER POWER PLANTS. FRANCE
IS ASSISTING IN THE DEVELOPMENT OF FAST BREEDER REACTOR TECHNOLOGY.
THE SOVIET UNION IS HELPING IN DEVELOPING
MAGNETOHYDRODYNAMICS (MHD) TECHNOLOGY. FOREIGN
COLLABORATION HAS BEEN INVITED FOR OFFSHORE OIL DRILLING AND SOME
AMERICAN COMPANIES HAVE CONTRACTS. 200 MW THERMAL PLANTS, HYDRO-
ELECTRIC PROJECTS AND ABOUT 80 PERCENT OF THE MAJOR ELEMENTS OF
CANDU TYPE REACTORS CAN NOW BE BUILT IN INDIA.SAXBE

UNCLASSIFIED

NNN

UNCLASSIFIED

PAGE 01 NEW DE 01546 02 OF 02 020938Z

15

ACTION OES-05

INFO OCT-01 NEA-10 ISO-00 FEA-01 ERDA-07 AID-05 CEA-01

CIAE-00 CIEP-02 COME-00 DODE-00 EB-07 FPC-01 H-02

INR-07 INT-05 L-03 NSAE-00 NSC-05 OMB-01 PM-04

USIA-15 SAM-01 SP-02 SS-15 STR-04 TRSE-00 NSF-02

CEQ-01 EPA-04 DOTE-00 HUD-02 NASA-02 NRC-07 /122 W

----- 007061

P 020730Z FEB 76

FM AMEMBASSY NEW DELHI

TO SECSTATE WASHDC PRIORITY 3736

UNCLAS SECTION 2 OF 2 NEW DELHI 1546

PASS ERD, OES, NSF, NBS, NOAA, DOI

EXTENT OF R AND D ACTIVITIES IN GOVERNMENT LABORATORIES
AND PRIVATE INDUSTRY

9. CURRENT STATUS OF R AND D RESEARCH PROGRAMS IN GOVERNMENT
LABORATORIES IS COVERED IN NEW DELHI A-319. MAJOR ENERGY
R AND D EFFORT IS CONCENTRATED IN GOVERNMENT LABORATORIES,
VERY LITTLE IS DONE BY PRIVATE INDUSTRY. HOWEVER, SOME OF THE BG

BIG GOVERNMENT-OWNED INDUSTRIAL CORPORATION LIKE BHARAT HEAVY
ELECTRICALS LTD. (BHEL) ARE NOW UNDERTAKING R AND D IN SEVERAL
AREAS OF ENERGY AND POWER. AN INSTITUTE OF DRILLING TECHNOLOGY
IS BEING ESTABLISHED WITH FRENCH HELP.

BASIC LEGISLATION EFFECTING ENERGY POLICY AND R AND D PROGRAMS

10. ENVIRONMENTAL DEGRADATION FROM INDUSTRIAL DEVELOPMENT
AND POWER STATIONS IS NOT AN IMMEDIATE PROBLEM IN INDIA
EXCEPT IN LARGE CITIES. HOWEVER, PARLIAMENT HAS ENACTED THE
CLEAN WATER ACT AND IS IN THE PROCESS OF FRAMING AN AIR
POLLUTION ACT. WE DO NOT THINK THAT THIS WILL VERY SUBSTANTIALY
UNCLASSIFIED

UNCLASSIFIED

PAGE 02 NEW DE 01546 02 OF 02 020938Z

AFFECT THE FORMULATION OF ENERGY POLICY AND R AND D PROGRAMS IN
INDIA.

INTERNATIONAL ACTIVITIES

11. INDIA HAS ENTERED INTO AGREEMENTS IN SCIENCE AND TECHNOLOGY
WITH SEVERAL COUNTRIES AND ENERGY R AND D HAS BEEN A SALIENT
FEATURE OF SEVERAL OF THEM, PARTICULARLY THE USSR, WEST GERMANY
AND FRANCE. INDIA HAS AGREEMENTS ON PEACEFUL USES OF ATOMIC
ENERGY WITH A LARGE NUMBER OF COUNTRIES. PRINCIPAL AMONG THEM
ARE (I) USA, WHO HELPED BUILT THE 400 MW TARAPUR ATOMIC
POWER STATION; (II) CANADA, WHO HELPED INDIA LEARN THE
TECHNOLOGY OF CANDU TYPE HEAVY WATER POWER REACTORS, AND
(III) FRANCE, WHO IS HELPING INDIA TO DEVELOP BREEDER REACTOR
TECHNOLOGY. RECENTLY, THE CENTRAL ELECTRICITY AUTHORITIES
OF FRANCE AND INDIA (REFTEL E) AGREED TO COOPERATE IN THE
AREA OF ELECTRIC POWER GENERATION AND TRANSMISSION.

COMMENT

12. ENERGY R AND D COOPERATION HAS BEEN DISCUSSED AT THE
JANUARY 27-29 INDO-US S AND T SUBCOMMISSION MEETING AT NEW
DELHI AND REPORTS, IF ANY, ON LATEST TRENDS OR CHANGES IN
ENERGY R AND D PRIORITIES MAY BE AWAITED FROM PARTICIPATING
USG OFFICIALS.SAXBE

UNCLASSIFIED

NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: ENERGY, RESEARCH, DEVELOPMENT PROGRAMS, PROGRESS REPORTS
Control Number: n/a
Copy: SINGLE
Draft Date: 02 FEB 1976
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Authority: n/a
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 JAN 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1976NEWDE01546
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Film Number: D760038-0673
From: NEW DELHI
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1976/newtext/t19760291/aaaadclo.tel
Line Count: 221
Locator: TEXT ON-LINE, ON MICROFILM
Office: ACTION OES
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 5
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: 76 STATE 301432, 76 NEW DELHI 684
Review Action: RELEASED, APPROVED
Review Authority: blochd0
Review Comment: n/a
Review Content Flags:
Review Date: 21 MAY 2004
Review Event:
Review Exemptions: n/a
Review History: RELEASED <21 MAY 2004 by BrownAM>; APPROVED <17 NOV 2004 by blochd0>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
04 MAY 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: BACKGROUND INFORMATION ON FOREIGN ENERGY PROGRAMS: INDIAN PROGRAMS
TAGS: TECH, ENRG, IN
To: STATE
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 04 MAY 2006